

SEQUENCE LISTING

<110> Merck & Co., Inc.
Freedman, Leonard P.
Glantschnig, Helmut
Harada, Shun-ichi
Hess, John W.

<120> CYNOMOLGUS MONKEY DICKKOPF-4,
NUCLEOTIDES ENCODING SAME, AND USES THEREOF

<130> 21351Y

<150> 60/520,569

<151> 2003-11-17

<160> 13

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 675

<212> DNA

<213> MACACA FASCICULARIS

<400> 1

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tgcctgtctg acacagactg caataccaga aagttctgcc tccagtccca caatgagaag 180
ccgttctgtg ctacatgtcg tgggttgagc aggaggtgcc agcgagatgc catgtgctgc 240
cctgggacac tctgcatgaa tgatgtttgt actacgatgg aagacgcaac cccaaaattg 300
gaaaggcagc ttgatgagca agatggcaca catgcagaag taacaactgg gcacccagtc 360
caggaaaacc aacccaagag gaagccaagt attaagaaat cacaaggcag gaagggacaa 420
gagggagaaa gttgtctgag aacttttgac tgtggccctg gactttgctg tgctcgtcat 480
ttttggacga aaatttgtaa gccagtcctt ttggaggagc aggtctgctc caggagaggg 540
cataaagaca ctgctcaagc tccagaaatc ttccagcggt gcgactgtgg ccccggaacta 600
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<210> 2

<211> 224

<212> PRT

<213> MACACA FASCICULARIS

<400> 2

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 20          25          30
Leu Gly Ala Arg Lys Gly Ser Gln Cys Leu Ser Asp Thr Asp Cys Asn
 35          40          45
Thr Arg Lys Phe Cys Leu Gln Ser His Asn Glu Lys Pro Phe Cys Ala
 50          55          60
Thr Cys Arg Gly Leu Gln Arg Arg Cys Gln Arg Asp Ala Met Cys Cys
 65          70          75          80
Pro Gly Thr Leu Cys Met Asn Asp Val Cys Thr Thr Met Glu Asp Ala
 85          90          95

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Thr	Pro	Lys	Leu	Glu	Arg	Gln	Leu	Asp	Glu	Gln	Asp	Gly	Thr	His	Ala	
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Glu	Val	Thr	Thr	Gly	His	Pro	Val	Gln	Glu	Asn	Gln	Pro	Lys	Arg	Lys	
		115					120					125				
Pro	Ser	Ile	Lys	Lys	Ser	Gln	Gly	Arg	Lys	Gly	Gln	Glu	Gly	Glu	Ser	
	130					135					140					
Cys	Leu	Arg	Thr	Phe	Asp	Cys	Gly	Pro	Gly	Leu	Cys	Cys	Ala	Arg	His	
145					150					155					160	
Phe	Trp	Thr	Lys	Ile	Cys	Lys	Pro	Val	Leu	Leu	Glu	Gly	Gln	Val	Cys	
			165						170					175		
Ser	Arg	Arg	Gly	His	Lys	Asp	Thr	Ala	Gln	Ala	Pro	Glu	Ile	Phe	Gln	
			180					185					190			
Arg	Cys	Asp	Cys	Gly	Pro	Gly	Leu	Leu	Cys	Arg	Ser	Gln	Leu	Thr	Ser	
		195					200					205				
Asn	Gln	Gln	His	Ala	Arg	Leu	Arg	Val	Cys	Gln	Lys	Ile	Glu	Lys	Leu	
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 <213> HOMO SAPIENS

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 gtggcgggccg tcctgctggg gctgagctgg ctctgctctc ccctgggagc tctggtcctg 180
 gacttcaaca acatcaggag ctctgctgac ctgcatgggg cccggaaggg ctcacagtgc 240
 ctgtctgaca cggactgcaa taccagaaag ttctgcctcc agccccgcga tgagaagccg 300
 ttctgtgcta catgtcgtgg gttgcggagg aggtgccagc gagatgccat gtgctgccct 360
 gggacactct gtgtgaacga tgtttgtact acgatggaag atgcaacccc aatattagaa 420
 aggcagcttg atgagcaaga tggcacacat gcagaaggaa caactgggca cccagtccag 480
 gaaaaccaac caaaaggaa gccaaagtatt aagaaatcac aaggcaggaa gggacaagag 540
 ggagaaagtt gtctgagaac ttttgactgt ggccctggac tttgctgtgc tcgtcatttt 600
 tggacgaaaa tttgtaagcc agtccttttg gagggacagg tctgctccag aagagggcat 660
 aaagacactg ctcaagctcc agaaatcttc cagcgttgcg actgtggccc tggactactg 720
 tgtcgaagcc aattgaccag caatcggcag catgctcgat taagagtatg ccaaaaaata 780
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<210> 4
 <211> 224
 <212> PRT
 <213> HOMO SAPIENS

<400> 4
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 20 25 30
 His Gly Ala Arg Lys Gly Ser Gln Cys Leu Ser Asp Thr Asp Cys Asn
 35 40 45
 Thr Arg Lys Phe Cys Leu Gln Pro Arg Asp Glu Lys Pro Phe Cys Ala
 50 55 60
 Thr Cys Arg Gly Leu Arg Arg Arg Cys Gln Arg Asp Ala Met Cys Cys
 65 70 75 80
 Pro Gly Thr Leu Cys Val Asn Asp Val Cys Thr Thr Met Glu Asp Ala
 85 90 95

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Thr Pro Ile Leu Glu Arg Gln Leu Asp Glu Gln Asp Gly Thr His Ala
      100      105      110
Glu Gly Thr Thr Gly His Pro Val Gln Glu Asn Gln Pro Lys Arg Lys
      115      120      125
Pro Ser Ile Lys Lys Ser Gln Gly Arg Lys Gly Gln Glu Gly Glu Ser
      130      135      140
Cys Leu Arg Thr Phe Asp Cys Gly Pro Gly Leu Cys Cys Ala Arg His
      145      150      155      160
Phe Trp Thr Lys Ile Cys Lys Pro Val Leu Leu Glu Gly Gln Val Cys
      165      170      175
Ser Arg Arg Gly His Lys Asp Thr Ala Gln Ala Pro Glu Ile Phe Gln
      180      185      190
Arg Cys Asp Cys Gly Pro Gly Leu Leu Cys Arg Ser Gln Leu Thr Ser
      195      200      205
Asn Arg Gln His Ala Arg Leu Arg Val Cys Gln Lys Ile Glu Lys Leu
      210      215      220

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<210> 5
 <211> 221
 <212> PRT
 <213> MUS MUSCULUS

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<400> 5
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      20      25      30
Gln Gly Ala Gly Lys Gly Ser Leu Cys Ala Ser Asp Arg Asp Cys Ser
      35      40      45
Glu Gly Lys Phe Cys Leu Ala Phe His Asp Glu Arg Ser Phe Cys Ala
      50      55      60
Thr Cys Arg Arg Val Arg Arg Arg Cys Gln Arg Ser Ala Val Cys Cys
      65      70      75      80
Pro Gly Thr Val Cys Val Asn Asp Val Cys Thr Ala Val Glu Asp Thr
      85      90      95
Arg Pro Val Met Asp Arg Asn Thr Asp Gly Gln Asp Gly Ala Tyr Ala
      100      105      110
Glu Gly Thr Thr Lys Trp Pro Ala Glu Glu Asn Arg Pro Gln Gly Lys
      115      120      125
Pro Ser Thr Lys Lys Ser Gln Ser Ser Lys Gly Gln Glu Gly Glu Ser
      130      135      140
Cys Leu Arg Thr Ser Asp Cys Gly Pro Gly Leu Cys Cys Ala Arg His
      145      150      155      160
Phe Trp Thr Lys Ile Cys Lys Pro Val Leu Arg Glu Gly Gln Val Cys
      165      170      175
Ser Arg Arg Gly His Lys Asp Thr Ala Gln Ala Pro Glu Ile Phe Gln
      180      185      190
Arg Cys Asp Cys Gly Pro Gly Leu Thr Cys Arg Ser Gln Val Thr Ser
      195      200      205
Asn Arg Gln His Ser Arg Leu Arg Val Cys Gln Arg Ile
      210      215      220

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<210> 6
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
<223> F2 PRIMER

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<210> 7
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> R2 PRIMER

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<210> 8
<211> 31
<212> DNA
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<400> 8
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<210> 9
<211> 37
<212> DNA
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<223> FF PRIMER

<400> 9
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<223> RR PRIMER

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<210> 12
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<212> DNA
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<220>
<223> Fseq PRIMER

<400> 12
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<210> 13
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<223> Rseq PRIMER

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